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[BOOK] Distributed systems

AS Tanenbaum, M Van Steen - 2002 - Citeseer

... High Performance Networks • Clusters and Computational Grids Course Outline ... Guests devices Laptop TV/PC Hotel wireless network ... IP, ATM virtual circuits Data link Responsible for transmission of packets between nodes that are directly connected by a physical link. ...

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A grid-enabled MPI: Message passing in heterogeneous distributed computing systems

I Foster... - Proceedings of the 1998 ACM/IEEE ... 1998 - portal.acm.org

... environment of Figure 1 might well first reduce within each SMP node, then within ... DeKalb, Ill., and a Resident Associate Guest in the Mathematics and Computer Science Division ... interests include techniques required to execute message passing programs in grid environments. ...

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Dynamic virtual clusters in a grid site manager

JS Chase, DE Irwin, LE Ghi, JD Moore... - computer.org

... longstanding assumption that software environments and applications are bound to specific computer systems that ... The node configuration cost—which is on the order of seconds, or minutes for a ... long runs of resource- intensive applications, which are typical in a grid setting. ...

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Nimrod/G: An architecture for a resource management and scheduling system in a global computational grid

R Buyya, D Abramson... - hpc, 2000 - computer.org

... School of Computer Science and ... The current version also uses these services along with the new features (such as Grid Directory Information Services) supported by the ... clusters of computers (such as Beowulf-class Linux clusters) it is common for only the master node to be ...

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From virtualized resources to virtual computing grids: the In-VIGO system

S Adabala, V Chaitia, P Chawla... - ... Generation Computer ... 2005 - Elsevier

... As a distributed computing system that includes processing nodes, storage devices, networks, software applications, and user ... and finally recover the results using a laptop or from a public computer of an ... in In-VIGO entails: (1) the installation of a tool in grid-enabled resources, (2 ...

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High performance parametric modeling with Nimrod/G: Killer application for the global grid?

D Abramson, J Giddy... - Parallel and Distributed ... 2002 - ieeexplore.ieee.org

... the file transfer commands, as well as the execution of the model on the remote node. ... Accordingly, it is not possible to consider the Grid as a single computer system under the control ... understanding of its problem domain as well as the nature of the computational Grid to provide ...

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A taxonomy and survey of grid resource management systems for distributed computing

K Krauter, R Buyya... - Software: Practice and ... 2002 - Wiley Online Library

... INTRODUCTION A distributed network computing (NC) system is a virtual computer formed by a networked set of heterogeneous machines that agree to share their local resources with each other. ... Hard QoS support is provided when all nodes in the Grid can police the SLAs ...

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Virtual workspaces: Achieving quality of service and quality of life in the grid

K Keahey, I Foster, T Freeman... - Scientific Programming, 2005 - IOS Press

... a Math & Computer Science Division, Argonne National Laboratory, Argonne, IL 60439, USA b University of ... site-provided installation available as a workspace is providing access to Grid clients. ... in a relatively coarse-grained manner allocating the number of nodes or amount ...

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Grid information services for distributed resource sharing

K Czajkowski, S Fitzgerald, I Foster... - High Performance ... 2002 - ieeexplore.ieee.org

... A superscheduler routes computational requests to the "best" available computer in a Grid ... VO- neutral infrastructure providing access to detailed, dynamic information about Grid entities. ... for a compute resource might provide information about the number of nodes, amount of ...

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Resource co-allocation in computational grids

K Czajkowski, I Foster... - ... 1999. Proceedings. The ... 2002 - ieeexplore.ieee.org

... the purposes of this discussion, we model the successful execution of a computer program as ... Grid applications typically operate on ensembles of resources that span administrative domains of ... is in general unreliable, due to either competing demands for the resource or out- ...

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